Amendments to the Claims:

This claim listing will replace all prior versions and listings of claims in the application:

Claim Listing:

- 1. (Previously presented) An isolated corepressor polypeptide encoded by the nucleotide sequence as set forth in Fig. 1D and having an amino acid sequence which comprises at least one LXXLL nuclear receptor interacting NR box motif wherein L is leucine and X is any amino acid residue, said polypeptide operably interactable with a nuclear receptor to actively repress transcription of DNA.
- 2. (Previously presented) The isolated polypeptide of claim 1, wherein said polypeptide is operably interactable with a nuclear receptor in one of a ligand-dependent and partially ligand-dependent manner.
- 3. (Previously presented) The isolated polypeptide of claim 2, wherein the nuclear receptor comprises a class I or a class II nuclear receptor.
- 4. (Previously presented) The isolated polypeptide of claim 3, wherein the nuclear receptor is selected form the group consisting of ERα, ERβ, GR, PR, VDR, RARα, RARβ, RARγ and RXRα.
- 5. (Previously presented) An isolated corepressor polypeptide essentially having an amino acid sequence as set forth at Fig. 1D comprising at least one modification of the amino acid sequence.
- 6. (Previously presented) The isolated polypeptide of claim 5, wherein said modification comprises at least one point mutation in the region of the sequence from nucleotides 53 to 57.
- 7. (Previously presented) The isolated polypeptide of claim 6, wherein the sequence from nucleotides 53 to 57 comprises the sequence LSKAA (SEQ ID NO: 17).

- 8. (Currently Amended) An isolated corepressor polypeptide encoded by the nucleotide sequence as set forth in Fig. 1D and having within its amino acid sequence at least two C-terminal binding protein interaction motifs, said first C-terminal binding protein interaction motif comprising the sequence PLDLTVR (SEQ ID NO: 15), and said second C-terminal binding protein interaction motif comprising the sequence VLDLSTK (SEQ ID NO: 16), said polypeptide operably interactable with a C-terminal binding protein (CtBP) corepressor in a pathway to repress expression of DNA.
- 9. (Previously presented) The isolated polypeptide of claim 8, wherein the CtBP corepressor is selected from the group consisting of CtBP1 and CtBP2.
- 10. (Previously presented) The isolated polypeptide of claim 8 comprising the amino acid sequence as set forth in Fig. 1D.
- 11. (Previously presented) An isolated polynucleotide coding for the polypeptide of claim 5.
- 12. (Previously presented) An expression vector comprising the polynucleotide of claim 11 operably linked to a promoter for expression in a host cell.
- 13. (Previously presented) A host cell stably transformed with the expression vector of claim 12.
- 14. (Previously presented) An antibody that specifically binds to the polypeptide of claim 1.
- 15. (Previously presented) An antibody that specifically binds to the polypeptide of claim 5.
- 16. (Previously presented) An antibody that specifically binds to the polypeptide of claim 8.

- 17. (Previously presented) A transgenic knock-out mouse comprising disruption in an endogenous gene which encodes for a corepressor polypeptide having a sequence as set forth in Fig. 1D, wherein said disruption has been introduced into its genome by a recombinant DNA construct stably integrated into the genome of said mouse or an ancestor thereof, wherein the disruption of the corepressor gene reduces expression of said corepressor causing altered active transcription of DNA associated with the corepressor.
- 18. (Previously presented) The transgenic knock-out mouse of claim 17, wherein the altered active transcription of DNA is increased relative to wild type.
- 19. (Previously presented) A method of modulating a cell comprising a gene which encodes for a corepressor polypeptide having a sequence as set forth in Fig. 1D, said method comprising the steps of introducing into said cell the isolated polynucleotide according to claim 5, whereby expression of the corepressor polypeptide is modulated.
- 20. (Previously presented) A method of inhibiting ligand-dependent transactivation in a cell by one of a class I and class II nuclear receptor comprising subjecting said cell to a corepressor amount of the polypeptide of claim 1.
- 21. (Previously presented) The method of claim 20, wherein the nuclear receptor is selected from the group consisting of ERα, ERβ, GR, PR, VDR, RARα, RARβ, RARγ and RXRα.
- 22. (Previously presented) A method of repressing nuclear-receptor mediated transcription in a cell comprising providing a ligand-dependent corepressor amount of the polypeptide of claim 1 to said cell.
- 23. (Previously presented) A method of modulating steroid hormone signaling in a cell comprising providing a ligand-dependent corepressor amount of the polypeptide of claim 1 to said cell.

- 24. (Previously presented) A method of regulating gene expression in a cell comprising providing the polypeptide as set forth at claim 8, wherein the polypeptide is operable to interact with at least one protein in a pathway to regulate gene expression.
- 25. (Previously presented) The method of claim 24, wherein the protein comprises a Cterminal binding protein corepressor.
- 26. (Previously presented) The method of claim 25 wherein the C-terminal binding protein corepressor is selected from the group consisting of CtBP-1 and CtBP-2.

27 - 33. (Cancelled)

- 34. (Previously presented) A method for assaying for compounds capable of modulating the activity of a corepressor polypeptide of claim 1 or an active variant thereof to actively modify transcription of DNA comprising the steps of:
 - (a) providing a corepressor polypeptide of claim 1 or an active variant thereof;
 - (b) contacting the corepressor polypeptide with a nuclear receptor in the presence and absence of the compound; and
 - (c) measuring the modulation in activity of repression of DNA translation of the corepressor polypeptide.
- 35. (Previously presented) A method for assaying for compounds capable of affording selective recruitment of the corepressor polypeptide of claim 1 in the presence of a ligand of a nuclear receptor, wherein the corepressor is operably interactable with the nuclear receptor to actively repress transcription of DNA in the presence of the ligand.
- 36. (Previously presented) The method of claim 35, wherein the ligand comprises estrogen or an estrogen-like compound and the repressed DNA transcription products are implicated in hormone-dependent cancer.

- 37. (Previously presented) The method of claim 36, wherein the hormone-dependent cancer is selected from the group consisting of hormone-dependent breast cancer and hormone-dependent uterine cancer.
- 38.-42. (Canceled)